MotoSAT

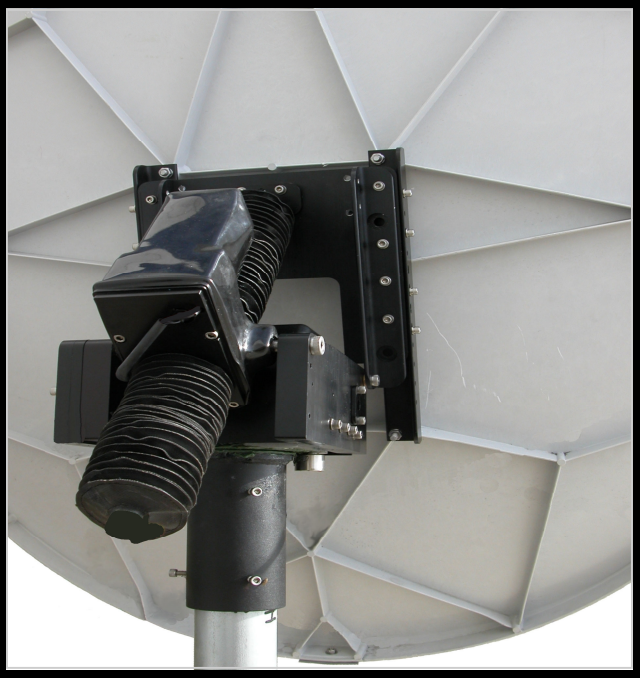
///MESA 1.2 HPX

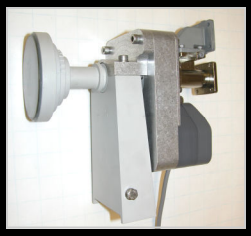
HIGH SPEED MOTORIZED EARTH STATION ANTENNA

MotoSAT's high speed Motorized Earth Station Antenna is the most rugged motorized VSAT system ever. It is certainly best of class.

- Auto acquire
- Motorized
- Semi-portable or fixed

The MESA HPX is raising the bar and taking stationary VSAT communication to the next step and on the move.





Motorized RF Skew Assembly allows automatic alignment of the LNB and HPA-BUC to any position in the horizontal and vertical fields.

Automatic Satellite Acquisition

The MESA HPX is a motorized multi-platform satellite antenna with three axis alignment. Using the MotoSAT H3 Antenna Controller, the MESA HPX will automatically acquire any target KU or C-Band satellite worldwide using advance satellite acquisition methods.

Rugged, Reliable, Functional and Secure

The MESA HPX is a industry leading solution. The MESA HPX enables the user to maintain critical Voice/Data communication in extreme environments delivering security and peace of mind when standard forms of communications are no longer feasible due to location or technical complications. The MESA HPX eliminates costly re-pointing and network downtime.

Flexible, with Ease of Operation

The MESA HPX operates seamlessly with all commercially available satellite modems, allowing access to any broadband application via satellite. The MotoSAT MESA HPX allows personnel with little or no satellite experience to operate VSAT equipment for anytime/anywhere communications.

Permanent or Semi-Portable Applications

The MESA HPX can easily be relocated when mounted on a variety of mobile platforms thereby making your VSAT communication system mobile.

Inclined Orbit Tracking

Inclined Orbit satellites offer a cost effective alternative to traditional GEO station kept satellite bandwidth. With its motorized auto-aligning capabilities for both elevation and azimuth, the MESA HPX can accurately track inclined orbit satellites anywhere in the world.

Redundancy

Most businesses rely upon terrestrial connections for voice and data communications. When these traditional means go down, whether for short durations or long-term outages, your enterprise could be without critical services for hours or even days. MotoSAT's satellite to LAN failover system provides your enterprise with the assurance that critical services will be uninterrupted when an outage occurs.

MotoSAT
MOBILE SATELLITE SYSTEMS

MESA 1.2 HPX SPECIFICATIONS

///MESA 1.2 HPX

MOUNT TRAVEL

- Azimuth: 270° @ 5° per second typical
- Elevation: 90° @ 1.5° per second typical
- Skew: ± 98° @ 12° per second typical
- Signal Peaking: Variable < 3° per second

ENVIRONMENTAL

- Wind operational: 60 MPH* (97 KPH)
- Wind survival: 125 MPH* (200 KPH)
- Temperature: - 40° to +185° F (- 40° to +85° C)

**See manufacturer's specifications for antenna performance*

ANTENNA COMPATIBILITY

- SkyWare Global: 1.2 meter **Model 123**
  Elevation satellite look angle; +5° to +95°
- Prodelin: 1.2 meter **Model 1135**
  Elevation satellite look angle; 0° to +90°

DRIVE TYPE

- Azimuth: Spur/Worm Drive
- Elevation: Spur/Screw Drive
- Skew: Spur Gears

CONTROLLER INFORMATION*

- Three axis motor control with automatic satellite acquisition
- Auto signal peaking — auto cross-pol optimization
- DVB-S1/S2 satellite identification with configurable satellite tables
- HTML/Telnet user interface
- Simple front panel interface with SEARCH, STOW and POWER buttons
- SD Card provides for configuration and firmware upgrades
- Dimensions: Stand-alone —11" x 7.5" x 1.75" || 2.5 lbs. (1.13 kg)
  IRU Rack mount —19" x 10" x 1.75" || 6 lbs. (2.72 kg)
- Temperature: +32° to +140° F (0° to +60° C)

* Optional GPS is available for increased acquisition speeds and modem interface upon request

POWER REQUIREMENTS

- H3-1RU (Rack Mount): 100-240VAC 50/60Hz 3.3A, Output 24VDC
- H3 (Stand-alone): 100-240VAC 50/60Hz 2.0A, Output 24VDC

MOTOR OPERATION

- Azimuth: 8 to 24 VDC up to 5 Amps (1 Amp typical)
- Elevation: 8 to 24 VDC up to 5 Amps (1.5 Amp typical)
- Skew: 8 to 24 VDC up to 5 Amps (.3 Amp typical)
- Temperature: - 40° to +185° F (- 40° to +85° C)

CABLE INTERFACE*

- Control Cable: 18 AWG 9 conductor with 9-pin Euro connector 5.08mm up to 100 ft.
- Transmit TX: RG6 coaxial copper center recommended
- Receive RX: RG6 coaxial copper center recommended
- LAN: RJ45 Ethernet port
- Power In: AC — IEC EN60 320-1 / DC - 3 Pin Euro connector 5.08mm

* For cable lengths over 100' please contact MotoSAT Technical Support

WEIGHT AND SHIPPING DIMENSIONS

- Mount: 15" x 21" x 24" || 81 lbs. (36.74 kg)
- Antenna: SkyWare Global: 56" x 50" x 6" || 48 lbs. (21.77 kg)
  Prodelin: 59" x 53" x 7" || 45 lbs. (20.41 kg)

SYSTEM WARRANTY

- Standard One (1) Year

DVB ANTENNA CONTROLLER

1RU H3 Antenna Controller

Stand-alone H3 Antenna Controller

MotoSAT
sales@motosat.com
www.motosat.com
800.247.7486
CONTACT US TODAY

MOTOSAT IS AN AUTHORIZED RESELLER FOR

ETHERSAT POWERED BY VREDES
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